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HISTORIC AMERICAN ENGINEERING RECORD

INDEX TO PHOTOGRAPHS

Jet Propulsion Laboratory Edwards Facility, Mixer & Casting Building (Building 4236/E-37)
Edwards Air Force Base
Boron Vicinity
Kern County
California

HAER No. CA-163-P

Photographers' Credits:

Credit BG: Brian Grogan, Photography & Preservation Associates, Inc., September 1995
Credit WCT: Photographic copy of JPL photograph by William C. Tibbitts, date cited in caption

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CA-163-P-1 Credit BG. The southeast and northeast facades appear as seen when looking due west (270°). Doors to the mixer room are open; the smaller closed doors lead to a building equipment room containing heating and refrigeration units for temperature control of the mixer and its contents. The mixer room doors and sidewalls are filled with foam and constructed to blow out in case of an explosion in the mixer. Note the lightning rods and two exterior emergency showers. The two tanks at the eastern corner of the building are unidentified.

CA-163-P-2 Credit BG. This view looks northwest (290°) in the mixer room at the 30-gallon Baker-Perkins model 12-1/2 PVM mixer and its associated equipment. The hopper in the left background feeds ingredients to the mixing pot when the hopper is mounted on the mixer frame; the hoist overhead is used to mount the hopper. The mixing pot is in its lowered position beneath the mixer blades. The pot is normally raised and secured to the upper half of the mixer, and a vacuum is applied during mixing operations to prevent the entrainment of air bubbles in the mix. A second mixing pot appears in the right background, and a pot vacuum lid appears in the extreme right foreground. The equipment on the palette in the left foreground is not related to the mixer. Note the explosion-proof fluorescent lighting fixtures suspended from the ceiling. The floor has an electrically conductive coating to dissipate static electrical charges.

CA-163-P-3 Credit WCT. Original 2-¼" x 2-¼" color negative is housed in the JPL Photography Laboratory, Pasadena, California. JPL staff members Harold Anderson and John Morrow cast grain from the 1-gallon Baker-Perkins model 4-PU mixer. A 1-pint Baker-Perkins model 2-PX mixer stands to the left in this view (JPL negative no. JPL-10295BC, 27 January 1989).

CA-163-P-4 Credit WCT. This view is a photographic copy of an original 2-¼" x 2-¼" color negative housed in the JPL Archives, Pasadena, California. This view looks down on the casting process for very large grain, in this case an 84-inch Char Motor, 1 August 1977. Note the large mandrel in the center of the casing (JPL negative no. 345-488A, 1 August 1977).